

WHAT IS CLAIMED IS:

1. A wrist-watch device having a wireless communication function, comprising:

a timepiece module including a mechanically driven time display member that displays the time;

5 a wireless communication circuit that transmits and receives data to and from an external wireless device by wireless communication, said wireless communication circuit including memory that stores data; and

a timepiece control unit that controls said time display member to display information in accordance with said stored data.

10 2. A wrist-watch device having a wireless communication function according to claim 1, further comprising a comparator unit that compares a value of said stored data with a value of predetermined data, and that generates comparison result data, wherein said timepiece control unit controls said time display member to display information in accordance with said comparison result data.

15 3. A wrist-watch device having a wireless communication function according to claim 2, wherein said time display member comprises a second hand and said timepiece control unit controls said second hand to perform an irregular movement in accordance with said comparison result data.

20 4. A wrist-watch device having a wireless communication function according to claim 3, wherein said timepiece control unit controls said second hand to move a predetermined distance in accordance with said stored data.

25 5. A wrist-watch device having a wireless communication function according to claim 4, wherein said timepiece control unit controls said second hand to restart displaying time after a predetermined period following movement of said second hand said predetermined distance.

6. A wrist-watch device having a wireless communication function according to claim 3, wherein said timepiece control unit controls said second hand to move to a predetermined position in accordance with said stored data.
7. A wrist-watch device having a wireless communication function according to 5 claim 2, wherein said timepiece control unit controls said time display member to display information in accordance with said comparison result data when the value of said stored data is less than the value of said predetermined data, and said timepiece control unit is responsive to an updating signal transmitted from said external wireless device for updating the value of said predetermined data.
- 10 8. A wrist-watch device having a wireless communication function according to claim 1, wherein said wireless communication circuit is responsive to a polling signal from the external wireless device for transmitting a communication enable signal indicating that wireless communication is to be performed with the external wireless device.
- 15 9. A wrist-watch device having a wireless communication function according to claim 1, further comprising a housing and a switch positioned on said housing and wherein said timepiece control unit is responsive to actuation of said switch for controlling said time display member to display information in accordance with said stored data.
- 20 10. A wrist-watch device having a wireless communication function according to claim 1, wherein said time display member comprises a first dial that displays at least one of the day of the week and the day of the month and said timepiece control unit controls said first dial to display information in accordance with said stored data.
- 25 11. A wrist-watch device having a wireless communication function according to claim 1, wherein said time display member comprises a first dial that displays time, and a separate second dial that displays at least one of the day of the week and the

day of the month and said timepiece control unit controls said second dial to display information in accordance with said stored data.

12. A wrist-watch device having a wireless communication function according to claim 1, wherein said time display member comprises a stop-watch indicator hand and a stop-watch dial that displays measured time, and said timepiece control unit controls said stop-watch indicator hand to display information in accordance with said stored data.
13. A wrist-watch device having a wireless communication function according to claim 1, wherein said wireless communication circuit comprises an IC chip including a communicator that modulates and demodulates data, and a controller that controls individual elements.
14. A wrist-watch device having a wireless communication function according to claim 1, wherein said wireless communication circuit comprises a power supply voltage generator that receives a signal from said external wireless device and that generates a power supply voltage from said received signal, and said timepiece control unit reads data from said wireless communication circuit by using said generated power.
15. A wrist-watch device having a wireless communication function according to claim 1, wherein said memory stores prepaid card data.
- 20 16. A wrist-watch device having a wireless communication function according to claim 1, further comprising a timer that counts a predetermined time period and wherein said timepiece control unit is responsive to said timer counting to an end of said predetermined time period for controlling said time display member to display information in accordance with said stored data.
- 25 17. An information display method for use in a wrist-watch device having a wireless communication function, said wrist-watch device comprising a timepiece module including a mechanically driven time display member that displays the

time, and a wireless communication circuit that transmits and receives data to and from an external wireless device by wireless communication, said wireless communication circuit including memory that stores data; said information display method comprising the steps of:

- 5 reading said stored data from said wireless communication circuit in response to an instruction signal; and

controlling said time display member to display information in accordance with said stored data.

18. An information display method for use in a wrist-watch device having a wireless communication function according to claim 17, further comprising:

comparing a value of said stored data with a value of predetermined data;

generating comparison result data; and

controlling said time display member to display information in accordance with said comparison result data.

19. An information display method for use in a wrist-watch device having a wireless communication function according to claim 18, wherein said time display member comprises a second hand, and further comprising:

controlling said second hand to perform an irregular movement in accordance with said comparison result data.

20 20. An information display method for use in a wrist-watch device having a wireless communication function according to claim 17, wherein said wrist-watch device comprises a switch, the method further comprising:

activating said switch; and

25 controlling said time display member to display information in accordance with said stored data in response to activation of said switch.

21. An information display method for use in a wrist-watch device having a wireless communication function according to claim 17, further comprising:

restarting time display after controlling said time display member to display information in accordance with said stored data for a predetermined period.

5 22. A recording medium for storing a control program executable by a computer for controlling a wrist-watch device having a wireless communication function, said wrist-watch device comprising a timepiece module including a mechanically driven time display member that displays the time, and a wireless communication circuit that transmits and receives data to and from an external wireless device by wireless
10 communication, said wireless communication circuit including memory that stores data; said control program executing a method comprising the steps of:

detecting an instruction from an external source;

reading said data from said wireless communication circuit based on said instruction; and

controlling said time display member to display information in accordance with said stored data.

23. A recording medium according to claim 22, wherein said time display member comprises a second hand, and said method further comprises:

controlling said second hand to perform an irregular movement in accordance with said stored data.

24. A recording medium according to claim 22, wherein said wrist-watch device comprises a switch, the method further comprising:

activating said switch; and

said detection of said instruction is in response to activation of said switch.

25 25. A recording medium according to claim 22, wherein the method further comprises:

restarting time display after controlling said time display member to display information in accordance with said stored data for a predetermined period.

26. A control program for controlling a wrist-watch device having a wireless communication function, said wrist-watch device comprising a timepiece module

5 including a mechanically driven time display member that displays the time, and a wireless communication circuit that transmits and receives data to and from an external wireless device by wireless communication, said wireless communication circuit including memory that stores data; said control program executing the steps of:

10 detecting an instruction from an external source;

reading said data from said wireless communication circuit based on said instruction; and

controlling said time display member to display information in accordance with said stored data.